# CSP ERANET NEWSLETTER

## December 2021

## ADDITIONAL JOINT CALL 2021

**CSP ERANET Additional Call 2021,** launched on 1st of October 2021, counted with the participation of 7 funding organizations from 6 countries/regions with a total budget of **€6.05 million**.

## PARTICIPATING COUNTRIES


The submission procedure of the CSP ERANET Additional Call 2021 is structured in two phases: pre-proposals and full-proposals. **Pre-proposal submission** has recently closed on **3rd December 2021** and the preliminary statistics are the following:

**7**
**PRE-PROPOSALS**
Submitted by deadline

**33**
**APPLICANTS**
**(45% companies)**

**ALL THE**
**FUNDING AGENCIES**
**received applicants**

**€9.6 MILLION**
Total Costs

**€7.4 MILLION**
Total Requested Funding

**€2.2MILLION**
Total Own Contribution

All the 7 Funding Agencies from the 6 participating countries/regions (Germany and North-Rhine-Westphalia, Spain, Turkey, Switzerlandand Israel) in the call have received applicants. **5 of the 8 main topics** have been addressed in the submitted pre-proposals, with the following distribution: 2 (Topic 2), 2 (Topic 3), 1 (Topic 5), 1 (Topic 7) and 1 (Topic 8).

## MORE INFORMATION

For more information on the CSP ERANET 1st Cofund Joint Call visit
https://csp-eranet.eu/calls/additional

# CSP TECHNOLOGY DAY

## EUSEW 2021 SUSTAINABLE ENERGY DAYS

CSP TECHNOLOGY DAY

SOCRATCES & CSP ERANET JOINT EVENT

CSP TECHNOLOGY DAY

THURSDAY, 21 OCTOBER, 2021 - 09:00 TO 13:30
ONLINE

More information
Registration (Webinar Session)
Registration (Brokerage Event)
CSP Technology Day Youtube Playlist

**Concentrated Solar Power (CSP) technology** is aiming to play a main role in the European renewable electricity generation in a medium term, making a significant contribution to the transformation of the European energy system by providing an important share of dispatchable renewable electricity. CSP will give a significant contribution to help meet the energy needs of large parts of the world, creating a potentially very important export sector for the European industry and supporting the decarbonisation agenda of the Paris Agreement. The European industry is global leader in CSP, with European entities involved in most of the projects developed so far worldwide.

CSP ERANET is the result of a joint EU will for bridging the gap between research and commercial deployment in the **Concentrated Solar Power (CSP) technology**, so this technology can play a main role in the European renewable electricity generation in a medium term. H2020-SOCRATCES global objective is to develop a prototype that will reduce the core risks of scaling up the technology and solve challenges; further understanding and optimise the operating efficiencies that could be obtained; with the longer-term goal of enabling highly competitive and sustainable CSP plants. Both CSP ERANET and H2020-SOCRATCES join forces in the CSP TECHNOLOGY DAY (**21 October, 9:00-13:30 CEST**), as part of the EUSEW 2021 Sustainable Energy Days, to present the achievements and further challenges of CSP, and present upcoming funding opportunities on the sector to keep feeding the development of this promising sustainable technology.

## European policy objectives of the CSP technology

### Piero De Bonis (DG RTD, Clean Energy Transition)


## The current European perspective of CSP

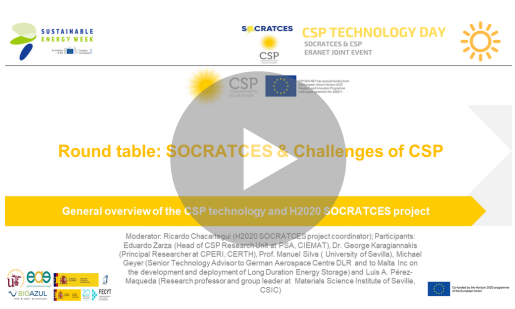
### Marcel Bial (Secretary general, ESTELA)


## CSP ERANET Additional Call 2021

### Rachel Tully and Julio Marchamalo (CSP ERANET)


## Round table SOCRATCES & Challenges of CSP

### Ricardo Chacartegui (H2020 SOCRATCES project coordinator) and CSP experts




## Introduction to Horizon Europe CSP related topics

### Cristina Garrido (CDTI, NCP CLV Energy Spain)

# NEWS & EVENTS

Most relevant **News & Events** for the **CSP ERANET** community that have been published in the webiste for the last months

## Acciona leads the Si-CO industrial innovation project


14 SEP 2021

**Acciona** leads the **Si-CO** industrial innovation project, which it is undertaking with a consortium of seven other institutions from three countries that are experienced in the key strategic areas of Concentrated Solar Power technology, namely Thermal Power Engineering S.L. (TEWER); Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas – Plataforma Solar de Almería (CIEMAT-PSA); Rioglass Solar Systems Ltd; Rioglass Solar SCH S.L.; Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Senior Flexonics GmbH; and WACKER Chemie AG.

The aim of the project, which will last for 30 months, is to design an innovative parabolic trough collector using a silicon-based heat transfer fluid operating at 430°C, to increase performance and reduce costs.

For more informatio check the following press releases from:

- **ACCIONA Social Network**
- **FuturEnergy**

If you can read spanish please find both previous press releases in spanish **here** and **here** and also **Periódico de la Energía** and **Protermosolar** national publications

## Candidates for European Partnerships in climate, energy and mobility

13 JUL 2021

**PwC Spain** has developed, and presented on the 16th June, the report, directed to the Spanish Association for the Promotion of the Solar Thermal Industry (PROTERMOSOLAR), and entitled "**The solar thermal industry as an economic driver in Spain**".

The report presents the **fundamental role played by thermal storage power plants**: thanks to its low-cost massive storage capacity, it allows a night supply of renewable energy captured during the day. Thus, the electrical system, even after sunset, can continue to be powered with lower dependence on fossil fuel technologies. Therefore, it is clear that the "**solar thermal technology must play a highly relevant role as a manageable nighttime technology**". The report presents some suggested ways to get this done: i) sending an appropriate price signal to existing plants to shift their production to the moments when demand is higher, and ii) orienting the new solar thermal developments towards night production windows.

The report provides **highly relevant data about this energy sector**, for example, that per megawatt installed, solar thermal generates much more direct and induced employment than the average for renewable technologies and that this technology contributes more to GDP than the continuous income it receives from public funding. As the majority of thermal energy storage power plants are installed in locations with less than 50,000 inhabitants, the technology contributes to the development of places that are most affected by depopulation and unemployment.

More information on the specific socioeconomic impact of the solar thermal sector in Spain can be found in the original post of the PwC report and presentation post here.

## Cerro Dominador Inaugurates its CSP plant, which will provide 100% renewable energy 24/7

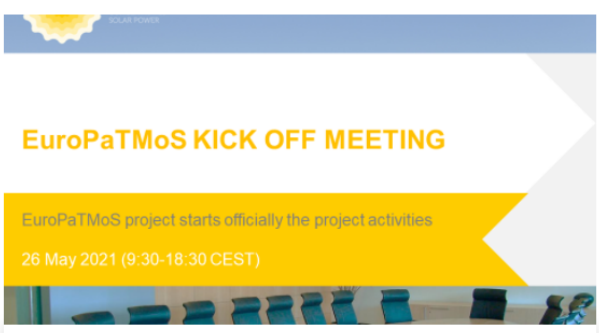
09 JUN 2021

The Cerro Dominador solar complex, located in Maria Elena, in the heart of Chile's Atacama Desert, inaugurated its CSP plant after a successful process of gradual synchronization with the Chilean electricity system. The plant generates 100% clean energy both during the day and at night. It is the first CSP Plant in Latin America to Provide 100% Renewable Energy on 24-Hour Basis.

Its beginning of operations is an important milestone in the decarbonization commitments assumed by Chile and it is a great contribution to having a renewable energy matrix. "We are proud to contribute with clean, flexible and innovative energy towards achieving the carbon neutrality goals of Chile," said Fernando González, CEO of Cerro Dominador.

The 110 MW solar thermal facility has 10,600 heliostats, each with a surface area of approximately140 m2, on a site of more than 700 hectares, which concentrate the reflected solar radiation onto a receiver located at the top of the 250-meter-high tower, through which molten salts circulate, absorbing the heat. Salts are then stored in large tanks to be used to generate electricity through a steam turbine, avoiding the emission of approximately 640,000 tons of CO2 per year and supplying a city of approximately 380,000 homes. Together with its photovoltaic plant, Cerro Dominador generates 210 MW of energy.

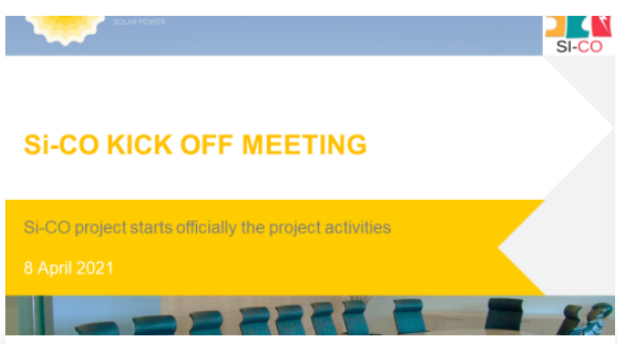
The project obtained financing from the European Union's Laif Program and KfW from Germany (through CORFO), as well as from a consortium of international banks, and was built by the Acciona-Abengoa Consortium.




### EuroPaTMoS Kick-off-Meeting

The **Kick-off-Meeting** of the CSP-ERANET 1st Call project **EuroPaTMoS** (European Parabolic Trough with Molten Salt) was held online on **May 26th 2021**. Therefore, the project activities have been initiated.

Read more




### Si-CO Kick-off-Meeting

The **Kick-off-Meeting** of the CSP-ERANET 1st Call project **Si-CO** was held online on **May 8th 2021**. Therefore, the project activities have been initiated, congratulations!

Read more

# CSP ERANET Additional Call 2021 Infodays

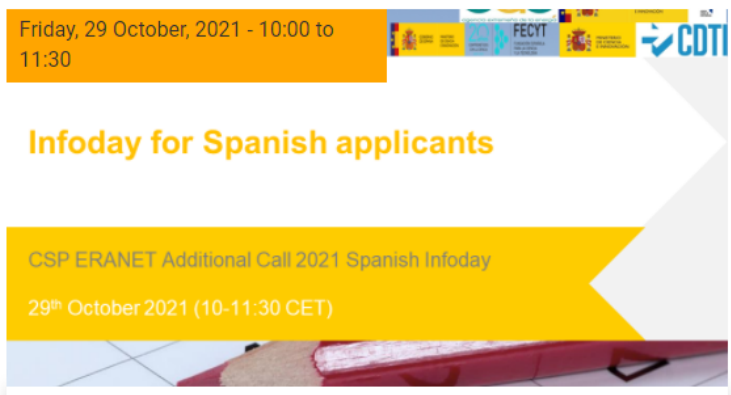
Thursday, 11 November, 2021 - 10:00 to 12:30

## CSP, ENPED and SOLAR COFUND 2 Calls Information Meeting for turkish applicants

An **online information meeting** was held on **11st November 2021** (**10.00 – 12.30**) about the calls made within the scope of **CSP, ENPED and SOLAR COFUND 2 Era-Net** projects supported under Horizon 2020, organized by TUBITAK. The scope of the relevant calls is given below. **More than 60 participants** attended the meeting.

Read more

Friday, 29 October, 2021 - 10:00 to 11:30




## CSP ERANET Additional Call 2021 Infoday for Spanish applicants

This **Infoday for Spanish applicants of the CSP ERANET Additional Call,** taking place next **29th October 2021 (10:00-11:30 CET),** will detail the general conditions for participation in the call, as well as the specific requirements of each of the participating Spanish funding organizations.

Read more

# CSP Projects Joint Webinar


## CSP Projects Joint Webinar

FRIDAY, 25 JUNE, 2021 - 10:00 TO 12:00
ONLINE

More information
Registration

The European Commission brought together the consortia of H2020 projects dealing with CSP funded by Innovation and Networks Executive Agency (INEA).

Under this framework, the SOCRATCES consortium organizes the **CSP Projects Joint Webinar** that will take place on the **25th June 2021**. Other projects related to concentrated solar power will participate in the webinar, such as MUSTEC, NEXTOWER and SFERA-III and CSP ERANET..

The aim of this webinar is to **offer a place to share the experience of these projects on concentrated solar power and discuss the potential of Concentrated Solar Power Plants** and its future within the Horizon Europe framework.

All of these projects have the following objectives in common:

- Enabling highly competitive and sustainable Concentrated Solar Power (CSP) plants.
- Improving the performance of small-scale CSP plants and their flexibility to generate power on demand.
- Identifying the barriers holding CSP back and limiting its expansion in Europe, in the context of the energy and climate targets of 2030 and beyond.
- Finding the drivers for CSP and the potential niches in which intra-European CSP trade can play an important role for the decarbonisation, stabilisation, and integration of the European power system.
- Proposing concrete policy solutions to overcome the identified obstacles and create the necessary enabling conditions for European CSP growth.
- Reinforcing the sustainability of the activities of the European advanced CSP research infrastructures through networking actions to develop cooperation between research infrastructures and stakeholders, transnational access to all European researchers to singular scientific and technological solar research infrastructures, promote joint research activities.
- Addressing the main market barriers for atmospheric air-based Tower CSP technologies through the development, of innovative materials solutions
- Fostering the integration of solar heat in industrial processes of the agro–food sector.
- Developing a prototype aimed at demonstrating the feasibility of the CSP-CaL integration that uses cheap, abundant, non-toxic materials and mature technologies, reducing the risks of scaling up the technology and solve challenges optimising the operating efficiencies that could be obtained.

Monday, 25 October, 2021 - 09:00 to Friday, 29 October, 2021 - 18:00


## EU Sustainable Energy Week (EUSEW) 2021

The **EU Sustainable Energy Week** (EUSEW) will take place on **25-29 October 2021** under the theme: 'Towards 2030: Reshaping the European Energy System'.

Read more

Wednesday, 22 September, 2021 - 10:00 to Friday, 24 September, 2021 - 18:00


## 30th Session of the Committee on Sustainable Energy (CSE-30)

The **30th Session of the Commit**

Read more

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